

especially articulately joined, at the respective joints, and are, for example, formed of respectively two parallel extending wires or cables of steel or another suitable material. The at least one joint of the third joint set lies below the lowermost corner joint of the first joint set with which it is connected.

In the Claims:

Please cancel claims 1 to 4.

Claims 5 to 20 have previously been cancelled in applicant's First Preliminary Amendment.

Please enter new claims 21 to 40 as follows.

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1 21. (new) Deployable structure with a modular configuration
2 consisting of at least one collapsible module (91), which
3 is bounded by joints (114, 115, 126, 121) of a first joint
4 set, which are corner joints of the module (91) and lie in
5 a first surface, and by joints (101, 102, 113, 108) of a
6 second joint set, which are corner joints of the module
7 (91) and lie in a second surface, and with at least one
8 joint (109, 122) of a third joint set, which lies outside
9 of the first surface, whereby at least a portion of the
10 joints of the first and second joint set is fixable in its
11 position relative to one another, especially connectable
12 with one another, by a guide mechanism, characterized in

13 that, one joint (109) of the third joint set is connected
 14 with at least two joints (114, 115, 113, 121) of the first
 15 and/or second joint set by a connecting element (39, 41,
 16 43, 45) that transmits essentially only tension forces, and
 17 is arranged below the lowermost joint (114, 115, 121) of
 18 the first joint set with which it is connected, and in that
 19 the forces arising upon loading of the structure by a
 20 useful working load and/or the self-weight load are
 21 transmittable as tension forces away from the joint (109)
 22 of the third joint set to the joints (114, 115, 113, 121)
 23 of the first and/or second joint set via the connecting
 24 element (39, 41, 43, 45) that transmits essentially only
 25 tension forces.

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1 22. (new) Structure according to claim 21, characterized in
 2 that a joint (122) of the third joint set is connected with
 3 at least one joint (101, 102, 113, 108) of the second joint
 4 set by a connecting element (40, 42, 44, 46) that transmits
 5 tension and compression forces.

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1 23. (new) Structure according to claim 22, characterized in
 2 that the at least two joints (114, 115, 113, 121) of the
 3 first and/or second joint set and the at least one joint
 4 (101, 102, 113, 108) of the second joint set are connected
 5 with a common joint of the third joint set.

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1 24. (new) Structure according to claim 22, characterized in
 2 that the at least two joints (114, 115, 113, 121) of the

3 first and/or second joint set are connected with a first
4 joint (109) of the third joint set, and the at least one
5 joint (101, 102, 113, 108) of the second joint set is
6 connected with a second joint (122) of the third joint set,
7 and in that the first joint (109) of the third joint set is
8 connected with the second joint (122) of the third joint
9 set by a connecting element (11) that transmits compression
10 and tension forces. (74, 75)

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1 25. (new) Structure according to claim 21, characterized in
2 that the first and/or the second surface is a plane.

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1 26. (new) Structure according to claim 21, characterized in
2 that all joints (101, 102, 113, 108) of the second joint
3 set, and the joint (109) of the third joint set, which is
4 connected with at least two joints (114, 115, 113, 121) of
5 the first and/or second joint set by a connecting element
6 (39, 41, 43, 45) that transmits essentially only tension
7 forces, lie in one plane.

X

1 27. (new) Structure according to claim 22, characterized in
2 that all joints (114, 115, 126, 121) of the first joint set
3 and the joint (122) of the third joint set, which is
4 connected with at least one joint (101, 102, 113, 108) of
5 the second joint set by a connecting element (40, 42, 44,
6 46) that transmits tension and compression forces, lie in
7 one plane.

1 28. (new) Structure according to claim 21, characterized in
 2 that the guide mechanism comprises guide means, and in that
 3 *102* at least one joint (114) of the first joint set of a corner
 4 of the module (91) especially arranged on the outer
 5 circumference of the structure is connected by the guide
 6 means with a joint (102) of the second joint set of a
 7 neighboring corner of the module (91) especially arranged
 8 on the outer circumference of the structure, and a joint
 9 (101) of the second joint set of the corner is connected by
 10 the guide means with a joint (115) of the first joint set
 11 of the neighboring corner. *Tube T*

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 1 29. (new) Structure according to claim 28, characterized in
 2 that the guide means comprise connecting elements (15, 16)
 3 that transmit tension and compression forces and that are
 4 crossed-over and pivotally connected with one another.

102 design
 1 30. (new) Structure according to claim 29, characterized in
 2 that the connecting elements (16, 32, 17, 20, 34, 21, 24,
 3 36, 25, 28, 38, 29) that transmit tension and compression
 4 forces and that lead to supports of the support structure
 5 have a greater load capacity, especially a larger diameter,
 6 than the remaining connecting elements (15, 31, 18, 19, 33,
 7 22, 23, 35, 26, 27, 37, 30) of the guide means.

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 1 31. (new) Structure according to claim 29, characterized in
 2 that at least a portion of the connecting elements (15, 16;
 3 17, 18; up to 37, 38), which are pair-wise crossed-over and

4 pivotally connected with one another and which transmit
5 tension and compression forces, are connected with one
6 another offset from their center in the longitudinal
7 direction.

1 ~~32.~~ 32. (new) Structure according to claim 21, characterized in
2 that multiple modules (91, 92, 93, 94) are arranged next to
3 one another, and in that neighboring modules comprise
4 common joints.

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2 ~~33.~~ 33. (new) Structure according to claim 21, characterized in
3 that the expansion of the module (91) or the structure (90)
4 is adjustable by an operating arrangement.
5 *the operating arrangement is guided in the joints to prevent*

1 ~~34.~~ 34. (new) Structure according to claim 33, characterized in
2 that the operating arrangement comprises expansion and
3 retraction means, especially an expansion cable and a
4 retraction cable, which are guided in the respective joints
5 over deflection means and are preferably fixably operable
6 on a common joint (101).

1 ~~35.~~ 35. (new) Structure according to claim 34, characterized in
2 that the expansion cable (1) is guided in the respective
3 joints over deflection means, especially deflection rollers
4 or deflection saddles, with at least two different
5 deflection radii.

1 F 36. (new) Structure according to claim 34, characterized in
2 that the structure (90) can have a pre-stress applied
3 thereto by means of the operating arrangement, and thereby
4 the structure (90) takes on a prescribable form in a loaded
5 condition.

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1 B 37. (new) Structure according to claim 21, characterized in
2 that at least a portion of the joints (114 to 121, 126) of
3 the first joint set and/or of the joints (101 to 108, 113)
4 of the second joint set and/on of the joints (109 to 112,
5 122 to 125) of the third joint set are connectable by a
6 membrane in such a manner so that thereby an at least
7 partially closed outer surface of the first or second
8 surface is formed.

1 F 38.

2 38. (new) Structure according to claim 21, characterized in
3 that at least a portion of the joints (114 to 121, 126) of
4 the first joint set and at least a portion of the joints
5 (122 to 125) of the third joint set are connectable with at
6 least one, preferably triangular, panel element (201 to
7 216) in such a manner so that thereby an at least partially
8 closed outer surface of the first surface is formed.

103 *format depends upon desired number of end points*

1 39. (new) Structure according to claim 22, characterized in
2 that the connecting elements that transmit tension and
3 compression forces are articulately joined on the
4 respective joints and are especially formed by rods of
5 aluminum.